



6143 North 60<sup>th</sup> Street  
Milwaukee, WI 53218 USA  
800.626.7833 [www.chimerx.com](http://www.chimerx.com)  
Date: 6/5/14

## Material Safety Data Sheet

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Product Name: E.coli DNA Ligase  
Product Number: 1065  
Chemical Name: N/A  
Chemical formula: N/A

### Hazardous Ingredients

- 50% GLYCEROL
- NO OTHER KNOWN HAZARDS ARE ASSOCIATED WITH THIS PRODUCT. ALL INFORMATION CONTAINED HEREIN REFERS TO HAZARDS ASSOCIATED WITH 50% GLYCEROL

### Health Hazard Data

- IRRITATING TO EYES AND SKIN
- TARGET ORGAN(S): KIDNEYS
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE
- WEAR SUITABLE PROTECTIVE CLOTHING

### First Aid Measures

- IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES
- IF SWALLOWED, WASH OUT MOUTH WITH WATER
- PROVIDED PERSON IS CONSCIOUS, CALL A PHYSICIAN
- IF INHALED, MOVE PERSON TO FRESH AIR
- IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION
- IF BREATHING IS DIFFICULT, GIVE OXYGEN

### Fire Fighting Measures

#### EXTINGUISHING MEDIA

- WATER SPRAY
- CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM
- WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES
  - EMITS TOXIC FUMES UNDER FIRE CONDITIONS

### Accidental Release Measures

- WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES
- ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL
- VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE



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## Exposure Controls/Personal Protection

- WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING
- MECHANICAL EXHAUST REQUIRED
- SAFETY SHOWER AND EYE BATH REQUIRED
- DO NOT BREATHE VAPOR
- AVOID CONTACT WITH EYES, SKIN AND CLOTHING
- AVOID PROLONGED OR REPEATED EXPOSURE
- WASH THOROUGHLY AFTER HANDLING
- WASH CONTAMINATED CLOTHING BEFORE REUSE
- KEEP TIGHTLY CLOSED
- STORE IN A COOL DRY PLACE

## Physical and Chemical Properties

### PHYSICAL PROPERTIES

SOLUBILITY: WATER SOLUBLE  
SPECIFIC GRAVITY: 1.13 g/ml  
pH: 5.5 – 8  
APPEARANCE: COLORLESS LIQUID

## Stability and Reactivity

### CONDITIONS TO AVOID

- PROTECT FROM MOISTURE

### INCOMPATIBILITIES

- PROTECT FROM MOISTURE
- STRONG OXIDIZING AGENTS
- STRONG BASES

### HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

- CARBON MONOXIDE, CARBON DIOXIDE

### HAZARDOUS POLYMERIZATION

- WILL NOT OCCUR

## Toxicological Information

### ACUTE EFFECTS

- MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT
- MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION
- CAUSES EYE AND SKIN IRRITATION
- PROLONGED EXPOSURE CAN CAUSE NAUSEA, HEADACHE, AND VOMITING
- TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED

### CHRONIC EFFECTS

- TARGET ORGAN(S): KIDNEYS